Section 9-5: Multiply Binomials

By the end of this lesson, you should be able to answer:

- How do you multiply binomials?

Where you might see this in the real world:

- Finance, geography, recreation, photography

We have now looked at multiplying a monomial by a monomial, dividing by a monomial, and multiplying a polynomial by a monomial. Today, we move away from monomials a bit and look at multiplying two binomials.

There are two methods we will be looking at today. I will not require you to use one method or the other. You get to choose which method works better for you. The first method we will look at is known at the FOIL method. We are going to multiply in this order: First terms, Outside terms, Inside terms, Last terms.

Example 1: Simplify.

a. $(2x + 4)(3x - 2)$

b. $(2x + 3)^2$

Another way to look at this is similar to the way we would multiply 32 and 45 together. Let's multiply these two numbers.

Example 2: Simplify.

a. $(w - 2)(w + 12)$

b. $(3a + 1)(a - 3)$

Problem Set:

"An opinion should be the result of thought, not a substitute for it." - Jeff Mallett